

CLAIMS

What is claimed is:

- 5 1. A roof vent for use with membrane roofs, comprising:
 - a) a lower dome with a port in a top surface;
 - b) an upper dome supported above the lower dome, wherein the upper dome has a bottom surface;wherein the top surface and bottom surface face each other and are spaced apart;
10 wherein a distance between the top and bottom surfaces decreases smoothly from a periphery to a center of the vent; and
c) a horizontal flange circumscribing a bottom of the lower dome.
- 15 2. The roof vent of claim 1 further comprising at least 2 feet under the flange.
3. The roof vent of claim 1 wherein the port is located where the distance between top and bottom surfaces is smallest.
- 20 4. The roof vent of claim 1 further including a drip edge circumscribing the upper dome.
5. The roof vent of claim 1 further including a drip pan inside the lower dome.
- 25 6. The roof vent of claim 5 further including a drain extending from the drip pan to outside the lower dome.
7. The roof vent of claim 1, wherein one of the top surface or the bottom surface is substantially flat.
- 30 8. The roof vent of claim 1, wherein the top surface and the bottom surface are both convex.

9. A membrane roof, comprising:

a) a roof membrane with a hole;

a) a lower dome with a port in a top surface;

5 b) an upper dome supported above the lower dome, wherein the upper dome has a bottom surface;

wherein the top surface and bottom surface face each other and are spaced apart;

wherein a distance between the top and bottom surfaces decreases smoothly from a periphery to a center of the vent; and

10 c) a horizontal flange circumscribing a bottom of the lower dome, wherein the flange is secured to the roof membrane in an area circumscribing the hole.

10. The membrane roof of claim 9 further comprising a subroof disposed under the membrane, wherein the subroof includes grooves conductive to airflow.

15 11. The membrane roof of claim 9 further comprising a porous layer conductive to airflow under the membrane.

12. The membrane roof of claim 9 further comprising at least 2 feet under the flange.

20 13. The membrane roof of claim 9 wherein the port is located where the distance between top and bottom surfaces is smallest.

25 14. The membrane roof of claim 9 further including a drip edge circumscribing the upper dome.

15. The membrane roof of claim 9 further including a drip pan inside the lower dome.

30 16. The membrane roof of claim 15 further including a drain extending from the drip pan to outside the lower dome.

17. The membrane roof of claim 9, wherein one of the top surface or the bottom surface is substantially flat.

5 18. The membrane roof of claim 9, wherein the top surface and the bottom surface are both convex.

19. A roof vent for use with membrane roofs, comprising:

a) a lower dome with a convex surface and a port in the convex surface;

10 b) an upper dome supported above the lower dome, wherein the upper dome has a convex surface;

wherein the convex surfaces face each other and are separated by a gap;

c) a horizontal flange circumscribing a bottom of the lower dome.

15 20. The roof vent of claim 19 further including a drip edge circumscribing the upper dome.